ELSEVIER

International Journal of Mass Spectrometry 249/250 (2006) 493–494

International Journal of Mass Spectrometry

www.elsevier.com/locate/ijms

Author index Volumes 249/250

Adlhart, C., 191
Afonso, C., 77
Ahmed, M., 155
Akasaka, T., 396
Alcaraz, C., 31
Aleese, L.M., 14
Ari, J.B., 433
Armentrout, P.B., 263
Aschi, M., 451

Baer, T., 403
Bailey, T.H., 462
Balaj, O.P., 106
Barrientos, C., 451
Bathelt, C., 359
Baytekin, B., 138
Becker, J.S., 296
Becker, K., 353
Bekkerman, A., 8
Belau, L., 155
Beyer, M.K., 106
Bhanuprakash, K., 206
Bitter, S., 138
Blagojevic, V., 385
Bleiholder, C., 45
Boesl, U., 364
Boguslavskiy, A.E., 317
Bohme, D.K., 385
Bondybey, V.E., 106
Borchardt, D., 303
Bouchoux, G., 412
Bowers, M.T., 252
Brüggemann, J., 138
Buisson, D.-A., 412
Burg, A., 296
Burgers, P.C., 240
Burnside, P.W., 279

Cao, B., 396
Cartoni, A., 311
Chiavarino, B., 149
Cimas, A., 451
Cipollini, R., 311
Crestoni, M.E., 149

de Bruin, B., 446
de Petris, G., 311
Dechamps, N., 484
Denifl, S., 353
Deutsch, J., 392
Ding, H., 317
Dopfer, O., 149
Dotan, I., 379
Dryahina, K., 230
Dutuit, O., 31

Echt, O., 396
Engeser, M., 138, 473
Ervasti, H.K., 240

Feil, S., 396
Feketeová, L., 162
Felder, T., 138
Fernandez, A.I., 379
Flaim, E., 385
Flammang, R., 484
Flesch, R., 68
Fornarini, S., 149
Fournier, F., 77
Friedman, J.F., 379
Futrell, J.H., 462

Gavrieli, I., 296
George, M., 21
Gerbaux, P., 484
Giblin, D.E., 21
Giorgi, G., 112
Glückmann, M., 426
Głuch, K., 396
Gridelet, E., 330
Griffin, L.L., 120
Gross, M.L., 21
Grützmacher, H., 130
Grützmacher, H.-F., 130
Gu, X., 420
Guo, Y., 420

Halicz, L., 296
Hammerum, S., 370
Harvey, J.N., 359
Hase, W.L., 321
Henkel, R., 138
Henriksen, L., 370
Herlert, A., 215
Herman, Z., 162
Herrmann, K.A., 93
Hillenkamp, F., 426
Holmes, J.L., 222
Horneffer, V., 426
Hudson, C.E., 120

Illenberger, E., 477
Ingemann, S., 370
Ipolyi, I., 162
Jarvis, M.J.Y., 385
Jašík, J., 162
Jimenez-Cruz, M., 155
Jortner, J., 184

Kabli, S., 370
Kaiser, R.I., 420
Kaplan, A., 8
Karas, M., 426
Karwasz, G., 477
Kemper, P.R., 252
Kenttämaa, H.I., 1
Kercher, J.P., 403
Kirchhoff, D., 130
Kolodney, E., 8
Koyanagi, G.K., 385
Kretzschmar, I., 263
Krüger, R., 426
Kuck, D., 340
Kuppannan, K., 93

Langer, J., 477
Largo, A., 451
Laskin, J., 462
Last, I., 184
Lee, R., 240
Lemaire, J., 14, 149
Leone, S.R., 155
Levy, Y., 184
Leyh, B., 330
Lifshitz, C., 396, 473
Locht, R., 330
Lorquet, J.C., 330
Luppertz, F., 138

Ma, K., 392
Mack, J., 353
Madalinski, G., 77
Maier, J.P., 317
Manard, M.J., 252
Mandelbaum, A., 433
Manor, Y., 8
March, R.E., 60
Martin, I., 477
Maître, P., 14, 149
Matt-Leubner, S., 396
Mazurek, U., 473
McAdoo, D.J., 120
McFadyen, W.D., 171
McMahon, T.B., 14
Meijer, G., 199
Miller, T.M., 379

doi:10.1016/S1387-3806(06)00093-5

Millié, P., 31
Moolayil, J.T., 21
Mormann, M., 340
Morton, T.H., 303
Märk, T.D., 162, 353, 396

Nam, P.-C., 484
Navon, I., 433
Nelson, E.D., 1
Nguyen, M.T., 484
Nicolas, C., 155
Nishri, A., 296

O'Hair, R.A.J., 171
Oomens, J., 199
Ortega, J.-M., 14

Paizs, B., 45
Palm, H., 31
Pickhardt, C., 296
Plattner, D.A., 446
Platzner, I.T., 296
Plenge, J., 68
Polce, M.J., 45
Price, S.D., 279
Pysanenko, A., 162

Rahaman, A., 321
Rapoport, S.I., 392
Rayón, V.M., 451
Reddy, P.N., 206
Reitmeier, S.J., 106
Rühl, E., 68
Richards, D.S., 60
Roithová, J., 162
Russell, A.L., 21
Ruttink, P.J.A., 240
Ryan, R.W., 60

Šabka, J., 162
Salpin, J.-Y., 340
Schalley, C.A., 138
Scheier, P., 353, 396
Schröder, D., 263
Schwarz, H., 263
Schweikhard, L., 215
Scott, L.T., 353
Scuderi, D., 14
Simon, A., 14
Smith, D., 230
Sonnweber, B., 353
Sordo, J.A., 451
Španěl, P., 230
Speranza, M., 112
Srikanth, R., 206
Srinivas, R., 21, 206
Stace, A.J., 289
Strupat, K., 426
Swamy, N.S., 21
Sztáray, B., 403

Tabet, J.-C., 77
Terlouw, J.K., 240
Thewissen, S., 446
Tichy, S.E., 1
Troe, J., 379
Troiani, A., 311
Tschurl, M., 364
Tsipinyuk, B., 8

Uggerud, E., 191

van Beelen, E.S.E., 370
Varela, L., 120
Viggiano, A., 379
von Helden, G., 199

Wakahara, T., 396
Wang, P., 45
Wang, X., 222
Watkins, M.A., 1
Weber, K., 303
Wee, S., 171
Werner, N., 138
Wesdemiotis, C., 45
Wilson, K.R., 155
Wind, F.-L., 77
Wu, G., 289
Wysocki, V.H., 93

Zhang, J., 303
Zhou, J.B., 321

ELSEVIER

International Journal of Mass Spectrometry 249/250 (2006) 495–501

International Journal of Mass Spectrometry

www.elsevier.com/locate/ijms

Subject index Volumes 249/250

Ab initio
Why ketonization is favored over enolization in 5-membered ring H-transfers by $CH_3C(=OH^+)CH_2C\sqrt{H_2}$ and in 6-membered ring H-transfers by $CH_3(C=OH^+)CH_2CH_2C\sqrt{H_2}$, 120
Ab initio calculations
Direct determination of the ionization energy of histidine with VUV synchrotron radiation, 155
Dissociation of protonated oxalic acid $[HOOC\text{-}C(OH)_2]^+$ into $H_3O^+ + CO + CO_2$: An experimental and CBS-QB3 computational study, 240
Accurate mass
Volatile compounds from six species of truffle – head-space analysis and vapor analysis at high mass resolution, 60
Amino acid derivatives
Mid-IR spectroscopy of protonated leucine methyl ester performed with an FTICR or a Paul type ion-trap, 14
Amino acids
Direct determination of the ionization energy of histidine with VUV synchrotron radiation, 155
Anchimeric assistance
The effect of steric hindrance on the relative rates of anchimerically assisted alcohol eliminations from MH^+ ions of 2-substituted 1,4-dialkoxybutanes upon CI and CID. Experiment and theory, 433
Angiotensin III analogue
Fragmentation of doubly-protonated peptide ion populations labeled by H/D exchange with CD_3OD, 93
Angular momentum
Analysis of kinetic energy release distributions by the maximum entropy method, 330
Antiknock
Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118 nm photoionization mass spectrometry, 303
Appearance energy
Appearance energies of singly, doubly, and triply charged coronene and corannulene ions produced by electron impact, 353
Arenium ions
Gas-phase titration of $C_7H_9^+$ ion mixtures by FT-ICR mass spectrometry: Semiquantitative determination of ion populations generated by CI-induced protonation of C_7H_8 isomers and by EI-induced fragmentation of some monoterpenes, 340

b- and y-fragment ions
Fragmentation of doubly-protonated peptide ion populations labeled by H/D exchange with CD_3OD, 93
Bidentate bases
Gas phase basicity of $X(CH_2)_3Y$(X, Y = OH, NH_2) by the thermokinetic method, 412
Biological nanoparticles
Direct determination of the ionization energy of histidine with VUV synchrotron radiation, 155
Bond dissociation energies
An experimental and theoretical investigation into the binding interactions of silver cluster cations with ethene and propene, 252
Bond-forming
Electron transfer and bond-forming reactions following collisions of SF^{2+} with Ar, 279
Bradykinin
Fragmentation of doubly-protonated peptide ion populations labeled by H/D exchange with CD_3OD, 93
Breath analysis
A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data, 230
Butanyol
On the dissociation of the 2-pentanone ion studied by threshold photoelectron photoion coincidence spectroscopy, 403

$C_4H_8O^+$
Why ketonization is favored over enolization in 5-membered ring H-transfers by $CH_3C(=OH^+)CH_2C\sqrt{H_2}$ and in 6-membered ring H-transfers by $CH_3(C=OH^+)CH_2CH_2C\sqrt{H_2}$, 120
$C_5H_{10}O^+$
Why ketonization is favored over enolization in 5-membered ring H-transfers by $CH_3C(=OH^+)CH_2C\sqrt{H_2}$ and in 6-membered ring H-transfers by $CH_3(C=OH^+)CH_2CH_2C\sqrt{H_2}$, 120
C-82
The stability of singly and multiply charged $La@C_{80}$ and $La@C_{82}$ ions determined from kinetic energy release measurements, 396
Carbenium ions
Gas-phase titration of $C_7H_9^+$ ion mixtures by FT-ICR mass spectrometry: Semiquantitative determination of ion populations generated by CI-induced protonation of C_7H_8 isomers and by EI-induced fragmentation of some monoterpenes, 340
Catalysis
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191
Cation
An infrared spectroscopic study of protonated and cationic indazole, 199
Chemical ionization (CI)
The effect of steric hindrance on the relative rates of anchimerically assisted alcohol eliminations from MH^+ ions of 2-substituted 1,4-dialkoxybutanes upon CI and CID. Experiment and theory, 433
Chemical kinetics
On the reaction of ground-state nitrogen atoms with bromomethyl radicals: A computational study, 451
Chlorine dioxide
Core-level excitation and fragmentation of chlorine dioxide, 68
Chloro(hydroxy) phosphanyl
Generation and characterization of ionic and neutral chloro(hydroxy) phosphanyl $[Cl\text{–}P\text{–}OH]^{+/\sqrt{}}$ and chloro(thiohydroxy) phosphanyl $[Cl\text{–}P\text{–}SH]^{+/\sqrt{}}$ in the gas phase by tandem mass spectrometry and computational chemistry, 206

doi:10.1016/S1387-3806(06)00094-7

Chloro(thiohydroxy) phosphanyl
Generation and characterization of ionic and neutral chloro(hydroxy) phosphanyl [Cl–P–OH]$^{+/\surd}$ and chloro(thiohydroxy) phosphanyl [Cl–P–SH]$^{+/\surd}$ in the gas phase by tandem mass spectrometry and computational chemistry, 206
Chrysene
Photodetachment-photoelectron spectroscopy of jet-cooled chrysene, 364
CID
The effect of steric hindrance on the relative rates of anchimerically assisted alcohol eliminations from MH^+ ions of 2-substituted 1,4-dialkoxybutanes upon CI and CID. Experiment and theory, 433
CI–GC–MS
An accelerated mass spectrometric method for measuring *myo*-inositol in phosphatidylinositol in rat brain, 392
Clusters
Chemical reactions in clusters of trifluoroacetic acid (CF_3COOH) triggered by electrons at sub-excitation energy (<2 eV), 477
Coincidence
State-selected $C_2H_2^+ + C_2H_4$ reaction: Controlled by dynamics or statistics?, 31
Collision induced dissociation
Generation and characterization of ionic and neutral chloro(hydroxy) phosphanyl [Cl–P–OH]$^{+/\surd}$ and chloro(thiohydroxy) phosphanyl [Cl–P–SH]$^{+/\surd}$ in the gas phase by tandem mass spectrometry and computational chemistry, 206
Collisional activation
Characterization of a distonic isomer $C_6H_5C^+(OH)OCH_2\surd$ of methyl benzoate radical cation by associative ion–molecule reactions, 484
Collisional stabilization
Collisional stabilization of highly vibrationally excited *o*-, *m*- and *p*-xylene ions ($C_8H_{10}^+$) from 300–900 K and 1–250 Torr, 379
Computation
Gas-phase proton transfer from dications: Coulombic repulsion between reaction products in $C_{60}H^{2+} + B$ (B = C_3H_3N, HCN and CO), 359
Computational chemistry
Generation and characterization of ionic and neutral chloro(hydroxy) phosphanyl [Cl–P–OH]$^{+/\surd}$ and chloro(thiohydroxy) phosphanyl [Cl–P–SH]$^{+/\surd}$ in the gas phase by tandem mass spectrometry and computational chemistry, 206
Core-level excitation
Core-level excitation and fragmentation of chlorine dioxide, 68
Coulomb explosion
Coulomb instability of multicharged proteins, 184
Cu(II) complexes
The role of the position of the basic residue in the generation and fragmentation of peptide radical cations, 171
Cyclic ether
The proton affinities of saturated and unsaturated heterocyclic molecules, 370
Cyclization
The mass spectrometry-induced cyclization of protonated *N*-[2-(benzoyloxy)phenyl]-benzamide: A gas-phase analog of a solution reaction, 21

Decarbonylation
The unexpected decarbonylation of ionized 2,3-pentanedione and related diketones, 222
Defect structures
How useful is mass spectrometry for the characterization of dendrimers?. "Fake defects" in the ESI and MALDI mass spectra of dendritic compounds, 138
Dehydrotropylium
Rearrangement of phenylcarbene radical cation to dehydrotropylium cation, 1
Dendrimers
How useful is mass spectrometry for the characterization of dendrimers?. "Fake defects" in the ESI and MALDI mass spectra of dendritic compounds, 138
Density functional (DFT) calculations
The effect of steric hindrance on the relative rates of anchimerically assisted alcohol eliminations from MH^+ ions of 2-substituted 1,4-dialkoxybutanes upon CI and CID. Experiment and theory, 433
Density functional theory
The mass spectrometry-induced cyclization of protonated *N*-[2-(benzoyloxy)phenyl]-benzamide: A gas-phase analog of a solution reaction, 21
Deuterium labeling
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191
The effect of steric hindrance on the relative rates of anchimerically assisted alcohol eliminations from MH^+ ions of 2-substituted 1,4-dialkoxybutanes upon CI and CID. Experiment and theory, 433
DFT
An experimental and theoretical investigation into the binding interactions of silver cluster cations with ethene and propene, 252
DFT calculation
Unimolecular reactions of halogeno phenylarsenium ions: Kinetic energy release during the elimination of halogen hydride, 130
Dication
Surface-induced dissociation and reactions of dications and cations: Collisions of dications $C_7H_8^{2+}$, $C_7H_7^{2+}$, and $C_7H_6^{2+}$ and a comparison with the respective cations $C_7D_8\surd^+$ and $C_7H_7^+$, 162
Electron transfer and bond-forming reactions following collisions of SF^{2+} with Ar, 279
Gas-phase proton transfer from dications: Coulombic repulsion between reaction products in $C_{60}H^{2+} + B$ (B = C_3H_3N, HCN and CO), 359
Diethers
The effect of steric hindrance on the relative rates of anchimerically assisted alcohol eliminations from MH^+ ions of 2-substituted 1,4-dialkoxybutanes upon CI and CID. Experiment and theory, 433
Diketones
The unexpected decarbonylation of ionized 2,3-pentanedione and related diketones, 222
Dilithiated peptides
Structural characterization of peptides via tandem mass spectrometry of their dilithiated monocations, 45
Dimer radical cation
Dissociation of protonated oxalic acid $[HOOC\text{-}C(OH)_2]^+$ into $H_3O^+ + CO + CO_2$: An experimental and CBS-QB3 computational study, 240
Dioxygen
Gas-phase reactions of an iridium(I) complex with dioxygen – Comparison to solution-phase reactivity, 446
Dissociation energy
Delayed neutral-atom evaporation of photoexcited anionic gold clusters, 215
Distonic ions
A novel route to $H_2O_2^{+\surd}$ ions via direct generation of the oxywater cation $H_2OO^{+\surd}$, 311
Distonic radical cations
Characterization of a distonic isomer $C_6H_5C^+(OH)OCH_2\surd$ of methyl benzoate radical cation by associative ion–molecule reactions, 484
Dynamic
State-selected $C_2H_2^+ + C_2H_4$ reaction: Controlled by dynamics or statistics?, 31

Electron affinity
Photodetachment-photoelectron spectroscopy of jet-cooled chrysene, 364

Electron attachment
Chemical reactions in clusters of trifluoroacetic acid (CF_3COOH) triggered by electrons at sub-excitation energy (<2 eV), 477
Electron impact ionization
Appearance energies of singly, doubly, and triply charged coronene and corannulene ions produced by electron impact, 353
Mass spectrum of the 1-butene-3-yne-2-yl radical (*i*-C_4H_3; X^2A'), 420
Electron promotion
Gas-phase reactions of nitric oxide with atomic lanthanide cations: Room-temperature kinetics and periodicity in reactivity, 385
Electron transfer
Electron transfer and bond-forming reactions following collisions of SF^{2+} with Ar, 279
Electronic structure
Gas-phase proton transfer from dications: Coulombic repulsion between reaction products in $C_{60}H^{2+}$ + B (B = C_3H_3N, HCN and CO), 359
Electronic transitions
Gas-phase electronic spectra of C_6NH_2 and C_8NH_2, 317
Electrospray
Gram-negative bacterial lipid A analysis by negative electrospray ion trap mass spectrometry: Stepwise dissociations of deprotonated species under low energy CID conditions, 77
Electrospray ionization
The mass spectrometry-induced cyclization of protonated *N*-[2-(benzoyloxy)phenyl]-benzamide: A gas-phase analog of a solution reaction, 21
How useful is mass spectrometry for the characterization of dendrimers?. "Fake defects" in the ESI and MALDI mass spectra of dendritic compounds, 138
The role of the position of the basic residue in the generation and fragmentation of peptide radical cations, 171
Gas-phase reactions of an iridium(I) complex with dioxygen – Comparison to solution-phase reactivity, 446
Endohedral
The stability of singly and multiply charged La@C_{80} and La@C_{82} ions determined from kinetic energy release measurements, 396
Endohedral fullerene
Impact formation of endohedral fullerenes at surfaces: Comparing field-free yield measurements with model calculations, 8
Energy transfer
Effects of projectile orientation and surface impact site on the efficiency of projectile excitation in surface-induced dissociation. Protonated diglycine collisions with diamond {1 1 1}, 321
Enol
On the dissociation of the 2-pentanone ion studied by threshold photoelectron photoion coincidence spectroscopy, 403
Equilibrium method
Gas phase basicity of $X(CH_2)_3Y$(X, Y = OH, NH_2) by the thermokinetic method, 412
Ergodicity
Analysis of kinetic energy release distributions by the maximum entropy method, 330
Ethene
An experimental and theoretical investigation into the binding interactions of silver cluster cations with ethene and propene, 252
Ether
Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118 nm photoionization mass spectrometry, 303

Fast atom bombardment
The mass spectrometry-induced cyclization of protonated *N*-[2-(benzoyloxy)phenyl]-benzamide: A gas-phase analog of a solution reaction, 21
Fluorescence confocal laser scan microscopy
Matrix–analyte-interaction in MALDI-MS: Pellet and nano-electrospray preparations, 426
Folch extraction
An accelerated mass spectrometric method for measuring *myo*-inositol in phosphatidylinositol in rat brain, 392
Formic acid
Reactions of hydrated electrons $(H_2O)_n^-$ with formic acid, 106
Fourier Transform Ion Cyclotron Resonance mass spectrometry
The proton affinities of saturated and unsaturated heterocyclic molecules, 370
Fragmentation
Core-level excitation and fragmentation of chlorine dioxide, 68
Fragmentation energetics
Mechanisms of peptide fragmentation from time- and energy-resolved surface-induced dissociation studies: Dissociation of angiotensin analogs, 462
Fragmentation mechanism
Unimolecular reactions of halogeno phenylarsenium ions: Kinetic energy release during the elimination of halogen hydride, 130
Mechanisms of peptide fragmentation from time- and energy-resolved surface-induced dissociation studies: Dissociation of angiotensin analogs, 462
Fragmentation pattern
Mass spectrum of the 1-butene-3-yne-2-yl radical (*i*-C_4H_3; X^2A'), 420
Free radical
Mass spectrum of the 1-butene-3-yne-2-yl radical (*i*-C_4H_3; X^2A'), 420
FT-ICR mass spectrometry
IR spectroscopy of protonated toluene: Probing ring hydrogen shifts in gaseous arenium ions, 149
FT-ICR MS
Mechanisms of peptide fragmentation from time- and energy-resolved surface-induced dissociation studies: Dissociation of angiotensin analogs, 462
Gas-phase H/D exchange of the protonated serine octamer cluster: "Ion ping pong" of populations A and B, 473
Furan
Gas phase studies of metal dimer complexes, $M_2L_n^+$, where M = Zn and Mn, and L = pyrrole and furan, for *n* in the range 1–5, 289

G3 calculation
The proton affinities of saturated and unsaturated heterocyclic molecules, 370
Gas chromatography
Volatile compounds from six species of truffle – head-space analysis and vapor analysis at high mass resolution, 60
Gas phase basicity
Gas phase basicity of $X(CH_2)_3Y$(X, Y = OH, NH_2) by the thermokinetic method, 412
Gas-phase chemistry
Gas-phase H/D exchange of the protonated serine octamer cluster: "Ion ping pong" of populations A and B, 473
Gas-phase reaction
On the reaction of ground-state nitrogen atoms with bromomethyl radicals: A computational study, 451
Glucosides
Stereoselective noncovalent interactions of monosaccharides with hydrazine, 112

H/D exchange
Fragmentation of doubly-protonated peptide ion populations labeled by H/D exchange with CD_3OD, 93
Head-space analysis
Volatile compounds from six species of truffle – head-space analysis and vapor analysis at high mass resolution, 60
Heteroaromatic compound
The proton affinities of saturated and unsaturated heterocyclic molecules, 370

Hydrated electron
Reactions of hydrated electrons $(H_2O)_n^-$ with formic acid, 106
Hydrazine
Stereoselective noncovalent interactions of monosaccharides with hydrazine, 112
Hydrogen formation
Reactions of hydrated electrons $(H_2O)_n^-$ with formic acid, 106
Hydrogen/deuterium exchange
Gas-phase H/D exchange of the protonated serine octamer cluster: "Ion ping pong" of populations A and B, 473

ICP-MS
Characterization of natural water resources in Israel by inductively coupled plasma mass spectrometry, 296
Indazole
An infrared spectroscopic study of protonated and cationic indazole, 199
Infrared spectroscopy
Mid-IR spectroscopy of protonated leucine methyl ester performed with an FTICR or a Paul type ion-trap, 14
An infrared spectroscopic study of protonated and cationic indazole, 199
Ion impact
Impact formation of endohedral fullerenes at surfaces: Comparing field-free yield measurements with model calculations, 8
Ion mixture analysis
Gas-phase titration of $C_7H_9^+$ ion mixtures by FT-ICR mass spectrometry: Semiquantitative determination of ion populations generated by CI-induced protonation of C_7H_8 isomers and by EI-induced fragmentation of some monoterpenes, 340
Ion molecule reaction
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191
Ion trap mass spectrometry
Gram-negative bacterial lipid A analysis by negative electrospray ion trap mass spectrometry: Stepwise dissociations of deprotonated species under low energy CID conditions, 77
Ion–dipole
Gram-negative bacterial lipid A analysis by negative electrospray ion trap mass spectrometry: Stepwise dissociations of deprotonated species under low energy CID conditions, 77
Ionization energies
Direct determination of the ionization energy of histidine with VUV synchrotron radiation, 155
Ion–molecule reaction
State-selected $C_2H_2^+ + C_2H_4$ reaction: Controlled by dynamics or statistics?, 31
Ion–molecule reactions
Characterization of a distonic isomer $C_6H_5C^+(OH)OCH_2\sqrt{}$ of methyl benzoate radical cation by associative ion–molecule reactions, 484
IR spectroscopy
IR spectroscopy of protonated toluene: Probing ring hydrogen shifts in gaseous arenium ions, 149
Iridium
Gas-phase reactions of an iridium(I) complex with dioxygen – Comparison to solution-phase reactivity, 446
Isotope effect
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191
Isotope ratio measurement
Characterization of natural water resources in Israel by inductively coupled plasma mass spectrometry, 296

Kinetic energy release
Unimolecular reactions of halogeno phenylarsenium ions: Kinetic energy release during the elimination of halogen hydride, 130
Kinetic energy release distribution (KERD)
The stability of singly and multiply charged $La@C_{80}$ and $La@C_{82}$ ions determined from kinetic energy release measurements, 396

Lanthanide cations
Gas-phase reactions of nitric oxide with atomic lanthanide cations: Room-temperature kinetics and periodicity in reactivity, 385
Lanthanum
The stability of singly and multiply charged $La@C_{80}$ and $La@C_{82}$ ions determined from kinetic energy release measurements, 396
Laser ablation
Gas-phase electronic spectra of C_6NH_2 and C_8NH_2, 317
Leucine
Mid-IR spectroscopy of protonated leucine methyl ester performed with an FTICR or a Paul type ion-trap, 14
Lipid A
Gram-negative bacterial lipid A analysis by negative electrospray ion trap mass spectrometry: Stepwise dissociations of deprotonated species under low energy CID conditions, 77
Liquid drop model
Coulomb instability of multicharged proteins, 184
Long-lived radionuclide
Characterization of natural water resources in Israel by inductively coupled plasma mass spectrometry, 296
Low energy collision
Gram-negative bacterial lipid A analysis by negative electrospray ion trap mass spectrometry: Stepwise dissociations of deprotonated species under low energy CID conditions, 77
Low energy electrons
Chemical reactions in clusters of trifluoroacetic acid (CF_3COOH) triggered by electrons at sub-excitation energy (<2 eV), 477

MALDI
Matrix–analyte-interaction in MALDI-MS: Pellet and nano-electrospray preparations, 426
MALDI-analyte-incorporation
Matrix–analyte-interaction in MALDI-MS: Pellet and nano-electrospray preparations, 426
MALDI-dry-preparation
Matrix–analyte-interaction in MALDI-MS: Pellet and nano-electrospray preparations, 426
Manganese
Gas phase studies of metal dimer complexes, $M_2L_n^+$, where M = Zn and Mn, and L = pyrrole and furan, for n in the range 1–5, 289
Mass spectrometry
Volatile compounds from six species of truffle – head-space analysis and vapor analysis at high mass resolution, 60
Core-level excitation and fragmentation of chlorine dioxide, 68
Stereoselective noncovalent interactions of monosaccharides with hydrazine, 112
How useful is mass spectrometry for the characterization of dendrimers?. "Fake defects" in the ESI and MALDI mass spectra of dendritic compounds, 138
A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data, 230
A novel route to $H_2O_2^{+\sqrt{}}$ ions via direct generation of the oxywater cation $H_2OO^{+\sqrt{}}$, 311
Matrix–analyte-interaction in MALDI-MS: Pellet and nano-electrospray preparations, 426
Mass spectrum
Mass spectrum of the 1-butene-3-yne-2-yl radical (i-C_4H_3; X^2A'), 420
Matrix-assisted laser desorption ionization
How useful is mass spectrometry for the characterization of dendrimers?. "Fake defects" in the ESI and MALDI mass spectra of dendritic compounds, 138

Maximum entropy
Analysis of kinetic energy release distributions by the maximum entropy method, 330
McLafferty rearrangement
The unexpected decarbonylation of ionized 2,3-pentanedione and related diketones, 222
Mechanism
The unexpected decarbonylation of ionized 2,3-pentanedione and related diketones, 222
6-Membered rings
Why ketonization is favored over enolization in 5-membered ring H-transfers by $CH_3C(=OH^+)CH_2C\sqrt{H_2}$ and in 6-membered ring H-transfers by $CH_3(C=OH^+)CH_2CH_2C\sqrt{H_2}$, 120
Metal cluster
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191
Metal cluster anions
Delayed neutral-atom evaporation of photoexcited anionic gold clusters, 215
Metal dimer
Gas phase studies of metal dimer complexes, $M_2L_n^+$, where M = Zn and Mn, and L = pyrrole and furan, for n in the range 1–5, 289
Metastable reaction
The stability of singly and multiply charged $La@C_{80}$ and $La@C_{82}$ ions determined from kinetic energy release measurements, 396
Methyl benzoate
Characterization of a distonic isomer $C_6H_5C^+(OH)OCH_2\sqrt{}$ of methyl benzoate radical cation by associative ion–molecule reactions, 484
Monoterpenes
Gas-phase titration of $C_7H_9^+$ ion mixtures by FT-ICR mass spectrometry: Semiquantitative determination of ion populations generated by CI-induced protonation of C_7H_8 isomers and by EI-induced fragmentation of some monoterpenes, 340
Morse cluster
Coulomb instability of multicharged proteins, 184
MS/MS
Structural characterization of peptides via tandem mass spectrometry of their dilithiated monocations, 45
Multicharged protein
Coulomb instability of multicharged proteins, 184
Multiply charged ion
Appearance energies of singly, doubly, and triply charged coronene and corannulene ions produced by electron impact, 353
Multipole ion guide
Gas-phase reactions of an iridium(I) complex with dioxygen – Comparison to solution-phase reactivity, 446
Multistage mass spectrometry
The role of the position of the basic residue in the generation and fragmentation of peptide radical cations, 171
myo-Inositol
An accelerated mass spectrometric method for measuring *myo*-inositol in phosphatidylinositol in rat brain, 392

Nanotechnology
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191
Negative ions
Chemical reactions in clusters of trifluoroacetic acid (CF_3COOH) triggered by electrons at sub-excitation energy (<2 eV), 477
Neutralisation–reionization
Generation and characterization of ionic and neutral chloro(hydroxy) phosphanyl $[Cl–P–OH]^{+/\sqrt{}}$ and chloro(thiohydroxy) phosphanyl $[Cl–P–SH]^{+/\sqrt{}}$ in the gas phase by tandem mass spectrometry and computational chemistry, 206
Characterization of a distonic isomer $C_6H_5C^+(OH)OCH_2\sqrt{}$ of methyl benzoate radical cation by associative ion–molecule reactions, 484
Niobium sulfide
Gas-phase thermochemistry of the early cationic transition-metal sulfides of the second row: YS^+, ZrS^+, and NbS^+, 263
Nitric oxide
Gas-phase reactions of nitric oxide with atomic lanthanide cations: Room-temperature kinetics and periodicity in reactivity, 385
Nitrogen containing hydrocarbons
Gas-phase electronic spectra of C_6NH_2 and C_8NH_2, 317
Nonadiabatic reactions
Analysis of kinetic energy release distributions by the maximum entropy method, 330
Noncovalent complexes
Stereoselective noncovalent interactions of monosaccharides with hydrazine, 112

O-atom transfer
Gas-phase reactions of nitric oxide with atomic lanthanide cations: Room-temperature kinetics and periodicity in reactivity, 385
Optical spectroscopy
Gas-phase electronic spectra of C_6NH_2 and C_8NH_2, 317
Oxywater cation
A novel route to $H_2O_2^{+\sqrt{}}$ ions via direct generation of the oxywater cation $H_2OO^{+\sqrt{}}$, 311
Ozone chemistry
A novel route to $H_2O_2^{+\sqrt{}}$ ions via direct generation of the oxywater cation $H_2OO^{+\sqrt{}}$, 311

2-Pentanone
On the dissociation of the 2-pentanone ion studied by threshold photoelectron photoion coincidence spectroscopy, 403
Penning trap
Delayed neutral-atom evaporation of photoexcited anionic gold clusters, 215
Peptide conformation
Fragmentation of doubly-protonated peptide ion populations labeled by H/D exchange with CD_3OD, 93
Peptide radicals
Structural characterization of peptides via tandem mass spectrometry of their dilithiated monocations, 45
Peptide sequencing
Structural characterization of peptides via tandem mass spectrometry of their dilithiated monocations, 45
Peroxo-complexes
Gas-phase reactions of an iridium(I) complex with dioxygen – Comparison to solution-phase reactivity, 446
Phenyl carbene
Rearrangement of phenylcarbene radical cation to dehydrotropylium cation, 1
Phenylarsane
Unimolecular reactions of halogeno phenylarsenium ions: Kinetic energy release during the elimination of halogen hydride, 130
Phosphatidylinositol
An accelerated mass spectrometric method for measuring *myo*-inositol in phosphatidylinositol in rat brain, 392
Photodetachment
Photodetachment-photoelectron spectroscopy of jet-cooled chrysene, 364
Photodissociation
IR spectroscopy of protonated toluene: Probing ring hydrogen shifts in gaseous arenium ions, 149
Photoelectron spectroscopy
Photodetachment-photoelectron spectroscopy of jet-cooled chrysene, 364
Photoionisation
State-selected $C_2H_2^+ + C_2H_4$ reaction: Controlled by dynamics or statistics?, 31

Core-level excitation and fragmentation of chlorine dioxide, 68
Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118 nm photoionization mass spectrometry, 303
Polyaromatic hydrocarbon
Appearance energies of singly, doubly, and triply charged coronene and corannulene ions produced by electron impact, 353
Pressure dependence
Collisional stabilization of highly vibrationally excited *o*-, *m*- and *p*-xylene ions ($C_8H_{10}^+$) from 300–900 K and 1–250 Torr, 379
Projectile orientation
Effects of projectile orientation and surface impact site on the efficiency of projectile excitation in surface-induced dissociation. Protonated diglycine collisions with diamond {1 1 1}, 321
Propen-2-ol
On the dissociation of the 2-pentanone ion studied by threshold photoelectron photoion coincidence spectroscopy, 403
Propene
An experimental and theoretical investigation into the binding interactions of silver cluster cations with ethene and propene, 252
Proton affinity
The proton affinities of saturated and unsaturated heterocyclic molecules, 370
Gas phase basicity of $X(CH_2)_3Y$(X, Y = OH, NH_2) by the thermokinetic method, 412
Proton transfer
Gas-phase proton transfer from dications: Coulombic repulsion between reaction products in $C_{60}H^{2+}$ + B (B = C_3H_3N, HCN and CO), 359
Proton transfer reactions
Gas-phase titration of $C_7H_9^+$ ion mixtures by FT-ICR mass spectrometry: Semiquantitative determination of ion populations generated by CI-induced protonation of C_7H_8 isomers and by EI-induced fragmentation of some monoterpenes, 340
Proton transport catalysis
Dissociation of protonated oxalic acid $[HOOC\text{-}C(OH)_2]^+$ into H_3O^+ + CO + CO_2: An experimental and CBS-QB3 computational study, 240
Protonated
Mid-IR spectroscopy of protonated leucine methyl ester performed with an FTICR or a Paul type ion-trap, 14
An infrared spectroscopic study of protonated and cationic indazole, 199
Protonated peptide
The role of the position of the basic residue in the generation and fragmentation of peptide radical cations, 171
Mechanisms of peptide fragmentation from time- and energy-resolved surface-induced dissociation studies: Dissociation of angiotensin analogs, 462
Proton-induced isomerization
Gas-phase titration of $C_7H_9^+$ ion mixtures by FT-ICR mass spectrometry: Semiquantitative determination of ion populations generated by CI-induced protonation of C_7H_8 isomers and by EI-induced fragmentation of some monoterpenes, 340
Pyrolysis
Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118 nm photoionization mass spectrometry, 303
Pyrrole
Gas phase studies of metal dimer complexes, $M_2L_n^+$, where M = Zn and Mn, and L = pyrrole and furan, for *n* in the range 1–5, 289

Quantum chemical calculations
Characterization of a distonic isomer $C_6H_5C^+(OH)OCH_2\sqrt{}$ of methyl benzoate radical cation by associative ion–molecule reactions, 484
Quantum chemistry
On the reaction of ground-state nitrogen atoms with bromomethyl radicals: A computational study, 451

Radical
Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118 nm photoionization mass spectrometry, 303
Radical cation
Rearrangement of phenylcarbene radical cation to dehydrotropylium cation, 1
Radical cations of peptides
The role of the position of the basic residue in the generation and fragmentation of peptide radical cations, 171
Radical reactivity
On the reaction of ground-state nitrogen atoms with bromomethyl radicals: A computational study, 451
Rat brain
An accelerated mass spectrometric method for measuring *myo*-inositol in phosphatidylinositol in rat brain, 392
Reaction mechanism
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191
Reactive intermediates
IR spectroscopy of protonated toluene: Probing ring hydrogen shifts in gaseous arenium ions, 149
Rearrangement
Rearrangement of phenylcarbene radical cation to dehydrotropylium cation, 1
Rhodium cluster
Mechanisms of catalytic dehydrogenation of alkanes by rhodium clusters Rh_n^+ probed by isotope labelling, 191

Salt bridges
Structural characterization of peptides via tandem mass spectrometry of their dilithiated monocations, 45
Scattering experiments
Surface-induced dissociation and reactions of dications and cations: Collisions of dications $C_7H_8^{2+}$, $C_7H_7^{2+}$, and $C_7H_6^{2+}$ and a comparison with the respective cations $C_7D_8\sqrt{}^+$ and $C_7H_7^+$, 162
Selected ion flow tube
A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data, 230
Serine octamer
Gas-phase H/D exchange of the protonated serine octamer cluster: "Ion ping pong" of populations A and B, 473
SID
Effects of projectile orientation and surface impact site on the efficiency of projectile excitation in surface-induced dissociation. Protonated diglycine collisions with diamond {1 1 1}, 321
SIFT-MS
A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data, 230
Silver cluster cations
An experimental and theoretical investigation into the binding interactions of silver cluster cations with ethene and propene, 252
Single photon ionization
Direct determination of the ionization energy of histidine with VUV synchrotron radiation, 155
Solubility
Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118 nm photoionization mass spectrometry, 303
Solution analogy
The mass spectrometry-induced cyclization of protonated *N*-[2-(benzoyloxy)phenyl]-benzamide: A gas-phase analog of a solution reaction, 21
Solvation
Reactions of hydrated electrons $(H_2O)_n^-$ with formic acid, 106

Statistical theory
State-selected $C_2H_2^+ + C_2H_4$ reaction: Controlled by dynamics or statistics?, 31
Steric effects in mass spectrometry
The effect of steric hindrance on the relative rates of anchimerically assisted alcohol eliminations from MH^+ ions of 2-substituted 1,4-dialkoxybutanes upon CI and CID. Experiment and theory, 433
Structural discrimination
Stereoselective noncovalent interactions of monosaccharides with hydrazine, 112
Structure
The unexpected decarbonylation of ionized 2,3-pentanedione and related diketones, 222
Structure elucidation
IR spectroscopy of protonated toluene: Probing ring hydrogen shifts in gaseous arenium ions, 149
Sulfonamides
How useful is mass spectrometry for the characterization of dendrimers?. "Fake defects" in the ESI and MALDI mass spectra of dendritic compounds, 138
Sulfur transfer
Gas-phase thermochemistry of the early cationic transition-metal sulfides of the second row: YS^+, ZrS^+, and NbS^+, 263
Supersonic jet
Pyrolysis of 2-methoxy-2,3,3-trimethylbutane (MTMB) monitored by 118 nm photoionization mass spectrometry, 303
Surface collision
Impact formation of endohedral fullerenes at surfaces: Comparing field-free yield measurements with model calculations, 8
Surface reactions
Surface-induced dissociation and reactions of dications and cations: Collisions of dications $C_7H_8^{2+}$, $C_7H_7^{2+}$, and $C_7H_6^{2+}$ and a comparison with the respective cations $C_7D_8\sqrt{}^+$ and $C_7H_7^+$, 162
Surface-induced dissociation
Surface-induced dissociation and reactions of dications and cations: Collisions of dications $C_7H_8^{2+}$, $C_7H_7^{2+}$, and $C_7H_6^{2+}$ and a comparison with the respective cations $C_7D_8\sqrt{}^+$ and $C_7H_7^+$, 162
Mechanisms of peptide fragmentation from time- and energy-resolved surface-induced dissociation studies: Dissociation of angiotensin analogs, 462

Tandem mass spectrometry
Mid-IR spectroscopy of protonated leucine methyl ester performed with an FTICR or a Paul type ion-trap, 14
Unimolecular reactions of halogeno phenylarsenium ions: Kinetic energy release during the elimination of halogen hydride, 130
Tautomerism
An infrared spectroscopic study of protonated and cationic indazole, 199
Temperature dependence
Collisional stabilization of highly vibrationally excited *o*-, *m*- and *p*-xylene ions ($C_8H_{10}^+$) from 300–900 K and 1–250 Torr, 379
Ter-body complex
Dissociation of protonated oxalic acid $[HOOC\text{-}C(OH)_2]^+$ into $H_3O^+ + CO + CO_2$: An experimental and CBS-QB3 computational study, 240
Thermokinetic method
Gas phase basicity of $X(CH_2)_3Y$(X, Y = OH, NH_2) by the thermokinetic method, 412
Time-resolved photodissociation
Delayed neutral-atom evaporation of photoexcited anionic gold clusters, 215
Toluene
Surface-induced dissociation and reactions of dications and cations: Collisions of dications $C_7H_8^{2+}$, $C_7H_7^{2+}$, and $C_7H_6^{2+}$ and a comparison with the respective cations $C_7D_8\sqrt{}^+$ and $C_7H_7^+$, 162
TPEPICO
On the dissociation of the 2-pentanone ion studied by threshold photoelectron photoion coincidence spectroscopy, 403
Trace analysis
Characterization of natural water resources in Israel by inductively coupled plasma mass spectrometry, 296
Trace gas analysis
A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data, 230
Transition-metal sulfide
Gas-phase thermochemistry of the early cationic transition-metal sulfides of the second row: YS^+, ZrS^+, and NbS^+, 263
Translational energy release
Analysis of kinetic energy release distributions by the maximum entropy method, 330
Truffle volatile
Volatile compounds from six species of truffle – head-space analysis and vapor analysis at high mass resolution, 60

Unimolecular dissociation
Dissociation of protonated oxalic acid $[HOOC\text{-}C(OH)_2]^+$ into $H_3O^+ + CO + CO_2$: An experimental and CBS-QB3 computational study, 240
Collisional stabilization of highly vibrationally excited *o*-, *m*- and *p*-xylene ions ($C_8H_{10}^+$) from 300–900 K and 1–250 Torr, 379

Volatile organic compounds
A general method for the calculation of absolute trace gas concentrations in air and breath from selected ion flow tube mass spectrometry data, 230

Water sample
Characterization of natural water resources in Israel by inductively coupled plasma mass spectrometry, 296

Xylene
Collisional stabilization of highly vibrationally excited *o*-, *m*- and *p*-xylene ions ($C_8H_{10}^+$) from 300–900 K and 1–250 Torr, 379

Yttrium sulfide
Gas-phase thermochemistry of the early cationic transition-metal sulfides of the second row: YS^+, ZrS^+, and NbS^+, 263

Zinc
Gas phase studies of metal dimer complexes, $M_2L_n^+$, where M = Zn and Mn, and L = pyrrole and furan, for n in the range 1–5, 289
Zirconium sulfide
Gas-phase thermochemistry of the early cationic transition-metal sulfides of the second row: YS^+, ZrS^+, and NbS^+, 263